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SEQUENCE LISTING

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<140> 09/782,816

<141> 2001-02-14

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<210> 1

<211> 23

<212> PRT

<213> Unknown

<220>

<221> UNSURE

<222> 22

<223> Xaa = Val or Leu

<223> The sequence is a Homo sapiens sequence when Xaa
represents Leu and a Mus musculus sequence when
Xaa represents Val.

<400> 1

Glu	Val	Glu	Lys	Ile	Lys	Thr	Thr	Val	Lys	Glu	Ser	Ala	Thr	Glu	Glu
1				5				10						15	
Lys	Leu	Thr	Pro	Val	Xaa	Leu									
				20											

<210> 2

<211> 22

<212> PRT

<213> Drosophila melanogaster

<400> 2

Glu	Val	Ala	Ala	Leu	Gln	Val	Asp	Arg	Lys	Val	Ala	Asp	Glu	Glu	Lys
1				5				10						15	
Gln	Ser	Tyr	Asp	Ala	Val										
				20											

<210> 3

<211> 22

<212> PRT

<213> Unknown

<223> A sequence conserved among Homo sapiens and Mus musculus.

Gly Val Lys Glu Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu
1 5 10 15
Val Gln Glu Leu Thr Thr
20

<213> Unknown

<223> A sequence conserved among Homo sapiens and Mus musculus.

Val Lys Glu Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val
1 5 10 15
Gln Glu Leu Thr Thr
20

<213> Unknown

<223> A sequence conserved among Homo sapiens and Mus musculus.

Lys Glu Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln
1 5 10 15
Glu Leu Thr Thr
20

<213> Unknown

<223> A sequence conserved among Homo sapiens and Mus musculus.

Glu Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu
1 5 10 15
Leu Thr Thr

<210> 7
<211> 18
<212> PRT
<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 7

Thr	Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val	Gln	Glu	Leu
1				5					10					15	
Thr	Thr														

<210> 8
<211> 17
<212> PRT
<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 8

Pro	Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val	Gln	Glu	Leu	Thr
1				5					10					15	
Thr															

<210> 9
<211> 16
<212> PRT
<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 9

Gln	Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val	Gln	Glu	Leu	Thr	Thr
1				5					10					15	

<210> 10
<211> 15
<212> PRT
<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 10

Gln	Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val	Gln	Glu	Leu	Thr	Thr
1				5				10					15	

<210> 11

<211> 14

<212> PRT

<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 11

Lys	Tyr	Gln	Arg	Leu	Leu	His	Glu	Val	Gln	Glu	Leu	Thr	Thr
1				5				10					

<210> 12

<211> 13

<212> PRT

<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 12

Tyr	Gln	Arg	Leu	Leu	His	Glu	Val	Gln	Glu	Leu	Thr	Thr
1				5				10				

<210> 13

<211> 12

<212> PRT

<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 13

Gln	Arg	Leu	Leu	His	Glu	Val	Gln	Glu	Leu	Thr	Thr
1				5				10			

<210> 14

<211> 11

<212> PRT

<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 14

Arg Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10

<210> 15
<211> 10
<212> PRT
<213> Unknown

<220>
<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 15
Leu Leu His Glu Val Gln Glu Leu Thr Thr
1 5 10

<210> 16
<211> 9
<212> PRT
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<400> 16
Leu His Glu Val Gln Glu Leu Thr Thr
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<210> 17
<211> 8
<212> PRT
<213> Unknown

<220>
<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 17
His Glu Val Gln Glu Leu Thr Thr
1 5

<210> 18
<211> 7
<212> PRT
<213> Unknown

<220>
<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 18
Glu Val Gln Glu Leu Thr Thr

<210> 19

<211> 6

<212> PRT

<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 19

Val Gln Glu Leu Thr Thr

1

5

<210> 20

<211> 5

<212> PRT

<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 20

Gln Glu Leu Thr Thr

1

5

<210> 21

<211> 4

<212> PRT

<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 21

Glu Leu Thr Thr

1

<210> 22

<211> 7

<212> PRT

<213> Unknown

<220>

<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 22

Ala Lys Gln Leu Ala Ala Leu

1

5

<210> 23
<211> 6
<212> PRT
<213> Unknown

<220>
<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 23
Ala Lys Gln Leu Ala Ala
1 5

<210> 24
<211> 5
<212> PRT
<213> Unknown

<220>
<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 24
Ala Lys Gln Leu Ala
1 5

<210> 25
<211> 4
<212> PRT
<213> Unknown

<220>
<223> A sequence conserved among Homo sapiens and Mus musculus.

<400> 25
Ala Lys Gln Leu
1

<210> 26
<211> 22
<212> PRT
<213> Drosophila melanogaster

<400> 26
Gly Glu Lys Glu Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu
1 5 10 15
Met Asn Glu Leu Leu Asn
20

<210> 27

<211> 21
<212> PRT
<213> Drosophila melanogaster

<400> 27
Glu Lys Glu Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met
1 5 10 15
Asn Glu Leu Leu Asn
20

<210> 28
<211> 20
<212> PRT
<213> Drosophila melanogaster

<400> 28
Lys Glu Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn
1 5 10 15
Glu Leu Leu Asn
20

<210> 29
<211> 19
<212> PRT
<213> Drosophila melanogaster

<400> 29
Glu Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu
1 5 10 15
Leu Leu Asn

<210> 30
<211> 18
<212> PRT
<213> Drosophila melanogaster

<400> 30
Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu
1 5 10 15
Leu Asn

<210> 31
<211> 17
<212> PRT
<213> Drosophila melanogaster

<400> 31
Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu
1 5 10 15
Asn

<210> 32
<211> 16
<212> PRT
<213> Drosophila melanogaster

<400> 32
Val Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10 15

<210> 33
<211> 15
<212> PRT
<213> Drosophila melanogaster

<400> 33
Gln Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10 15

<210> 34
<211> 14
<212> PRT
<213> Drosophila melanogaster

<400> 34
Lys Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10

<210> 35
<211> 13
<212> PRT
<213> Drosophila melanogaster

<400> 35
Cys Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10

<210> 36
<211> 12
<212> PRT
<213> Drosophila melanogaster

<400> 36
Gln Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10

<210> 37
<211> 11
<212> PRT
<213> Drosophila melanogaster

<400> 37

Arg Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10

<210> 38

<211> 10

<212> PRT

<213> *Drosophila melanogaster*

<400> 38

Leu Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5 10

<210> 39

<211> 9

<212> PRT

<213> *Drosophila melanogaster*

<400> 39

Gln Ile Glu Met Asn Glu Leu Leu Asn
1 5

<210> 40

<211> 8

<212> PRT

<213> *Drosophila melanogaster*

<400> 40

Ile Glu Met Asn Glu Leu Leu Asn
1 5

<210> 41

<211> 7

<212> PRT

<213> *Drosophila melanogaster*

<400> 41

Glu Met Asn Glu Leu Leu Asn
1 5

<210> 42

<211> 6

<212> PRT

<213> *Drosophila melanogaster*

<400> 42

Met Asn Glu Leu Leu Asn
1 5

<210> 43

<211> 5

<212> PRT
<213> Drosophila melanogaster

<400> 43
Asn Glu Leu Leu Asn
1 5

<210> 44
<211> 4
<212> PRT
<213> Drosophila melanogaster

<400> 44
Glu Leu Leu Asn
1

<210> 45
<211> 9
<212> PRT
<213> Drosophila melanogaster

<400> 45
Val Ala Thr Val Ile Ser Thr Ala Arg
1 5

<210> 46
<211> 8
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<213> Drosophila melanogaster

<400> 46
Val Ala Thr Val Ile Ser Thr Ala
1 5

<210> 47
<211> 7
<212> PRT
<213> Drosophila melanogaster

<400> 47
Val Ala Thr Val Ile Ser Thr
1 5

<210> 48
<211> 6
<212> PRT
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<400> 48
Val Ala Thr Val Ile Ser
1 5

<210> 49
<211> 5
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<213> Drosophila melanogaster

<400> 49
Val Ala Thr Val Ile
1 5

<210> 50
<211> 4
<212> PRT
<213> Drosophila melanogaster

<400> 50
Val Ala Thr Val
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<210> 51
<211> 52
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<213> Unknown

<220>
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<223> Xaa = Val or Leu

<223> A sequence conserved among Homo sapiens and Mus musculus.

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Gly Val Lys Glu Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu
1 5 10 15
Val Gln Glu Leu Thr Thr Glu Val Glu Lys Ile Lys Thr Thr Val Lys
20 25 30
Glu Ser Ala Thr Glu Glu Lys Leu Thr Pro Val Xaa Leu Ala Lys Gln
35 40 45
Leu Ala Ala Leu
50

<210> 52
<211> 53
<212> PRT
<213> Drosophila melanogaster

<400> 52
Gly Glu Lys Glu Thr Pro Val Gln Lys Cys Gln Arg Leu Gln Ile Glu
1 5 10 15
Met Asn Glu Leu Leu Asn Glu Val Ala Ala Leu Gln Val Asp Arg Lys
20 25 30
Val Ala Asp Glu Glu Lys Gln Ser Tyr Asp Ala Val Val Ala Thr Val
35 40 45

Ile Ser Thr Ala Arg
50

<210> 53
<211> 406
<212> PRT
<213> Homo sapiens

<400> 53
Met Ala Asp Pro Lys Tyr Ala Asp Leu Pro Gly Ile Ala Arg Asn Glu
1 5 10 15
Pro Asp Val Tyr Glu Thr Ser Asp Leu Pro Glu Asp Asp Gln Ala Glu
20 25 30
Phe Asp Ala Phe Ala Gln Glu Leu Glu Glu Leu Thr Ser Thr Ser Val
35 40 45
Glu His Ile Ile Val Asn Pro Asn Ala Ala Tyr Asp Lys Phe Lys Asp
50 55 60
Lys Arg Val Gly Thr Lys Gly Leu Asp Phe Ser Asp Arg Ile Gly Lys
65 70 75 80
Thr Lys Arg Thr Gly Tyr Glu Ser Gly Glu Tyr Glu Met Leu Gly Glu
85 90 95
Gly Leu Gly Val Lys Glu Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu
100 105 110
His Glu Val Gln Glu Leu Thr Thr Glu Val Glu Lys Ile Lys Thr Thr
115 120 125
Val Lys Glu Ser Ala Thr Glu Glu Lys Leu Thr Pro Val Leu Leu Ala
130 135 140
Lys Gln Leu Ala Ala Leu Lys Gln Gln Leu Val Ala Ser His Leu Glu
145 150 155 160
Lys Leu Leu Gly Pro Asp Ala Ala Ile Asn Leu Thr Asp Pro Asp Gly
165 170 175
Ala Leu Ala Lys Arg Leu Leu Leu Gln Leu Glu Ala Thr Lys Asn Ser
180 185 190
Lys Gly Gly Ser Gly Gly Lys Thr Thr Gly Thr Pro Pro Asp Ser Ser
195 200 205
Leu Val Thr Tyr Glu Leu His Ser Arg Pro Glu Gln Asp Lys Phe Ser
210 215 220
Gln Ala Ala Lys Val Ala Glu Leu Glu Lys Arg Leu Thr Glu Leu Glu
225 230 235 240
Thr Ala Val Arg Cys Asp Gln Asp Ala Gln Asn Pro Leu Ser Ala Gly
245 250 255
Leu Gln Gly Ala Cys Leu Met Glu Thr Val Glu Leu Leu Gln Ala Lys
260 265 270
Val Ser Ala Leu Asp Leu Ala Val Leu Asp Gln Val Glu Ala Arg Leu
275 280 285
Gln Ser Val Leu Gly Lys Val Asn Glu Ile Ala Lys His Lys Ala Ser
290 295 300
Val Glu Asp Ala Asp Thr Gln Ser Lys Val His Gln Leu Tyr Glu Thr
305 310 315 320
Ile Gln Arg Trp Ser Pro Ile Ala Ser Thr Leu Pro Glu Leu Val Gln
325 330 335
Arg Leu Val Thr Ile Lys Gln Leu His Glu Gln Ala Met Gln Phe Gly
340 345 350
Gln Leu Leu Thr His Leu Asp Thr Thr Gln Gln Met Ile Ala Asn Ser
355 360 365
Leu Lys Asp Asn Thr Thr Leu Leu Thr Gln Val Gln Thr Thr Met Arg

370 375 380
 Glu Asn Leu Ala Thr Val Glu Gly Asn Phe Ala Ser Ile Asp Glu Arg
 385 390 395 400
 Met Lys Lys Leu Gly Lys
 405

<210> 54
 <211> 183
 <212> PRT
 <213> Mus musculus

<400> 54
 Met Ala Asp Pro Lys Tyr Ala Asp Leu Pro Gly Ile Ala Arg Asn Glu
 1 5 10 15
 Pro Asp Val Tyr Glu Thr Ser Asp Leu Pro Glu Asp Asp Gln Ala Glu
 20 25 30
 Phe Asp Ala Glu Glu Leu Ser Ser Thr Ser Val Glu His Ile Ile Val
 35 40 45
 Asn Pro Asn Ala Ala Tyr Asp Lys Phe Lys Asp Lys Arg Val Gly Thr
 50 55 60
 Lys Gly Leu Asp Phe Ser Asp Arg Ile Gly Lys Thr Lys Arg Thr Gly
 65 70 75 80
 Tyr Glu Ser Gly Asp Tyr Glu Met Leu Gly Glu Gly Leu Gly Val Lys
 85 90 95
 Glu Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu
 100 105 110
 Leu Thr Thr Glu Val Glu Lys Ile Lys Thr Thr Val Lys Glu Ser Ala
 115 120 125
 Thr Glu Glu Lys Leu Thr Pro Val Val Leu Ala Lys Gln Leu Ala Ala
 130 135 140
 Leu Lys Gln Gln Leu Val Ala Ser His Leu Glu Lys Leu Leu Gly Pro
 145 150 155 160
 Asp Ala Ala Ile Asn Leu Ala Asp Pro Asp Gly Ala Leu Ala Lys Arg
 165 170 175
 Leu Leu Leu Gln Leu Glu Ala
 180

<210> 55
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 <213> Drosophila melanogaster

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 gaagccatcg agcgactgca catctcgccg agcgtcgctc acaagcgctt cagcggagca 180
 acggtcgagg ggagtgtgga cttcacggat cgcattggac gacgcatgtg ccgggggttac 240
 gatacgcgcg gctccagcga ctacgagctg gttggccagg gcgagaagga gacgcccgtg 300
 cagaagtgcc agcgcttgca gatcgagatg aacgagcttc tgaacgaggt ggccgccttg 360
 caggtggacc gcaaggtagc cgacgaggag aagcagtcgt acgatgcggt ggccacggtt 420
 atcagcacgg cccgaaagg gctggagtcg ctgaagctgg agcaagtgct gggcaaggag 480
 cagacgcctg gaagtaagca ggtgaaagca ctcatatagcc aggtggagga gttcaagcag 540
 tccggtgctc tcacagccat acccagcctt ggcaccgac tggcgccac ggccgcgta 600
 gccagtctag agcagcgaat ctgcagctg gagaaggtgc tggcgctca gccggacaag 660
 ttgagccgcc ttaccgccc caccacacc accaatgtac tagaggcagt gcgtcatcta 720

Ile Thr Thr Ser Leu Val Asn Asn Lys Glu Leu Leu His Ser Val Gln
340 345 350
Glu Thr Phe Ala Gln Asn Leu Glu Thr Ile Asn Ser Lys Val Ala Lys
355 360 365
Val Glu Gln Arg Val Ala Ala Ile Ser Ser Ala Lys
370 375 380



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